LA CROSSE®
TECHNOLOGY

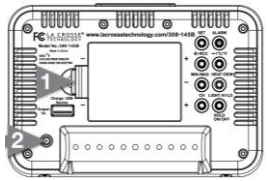
Wireless Color Weather Station
Model: 308-145B | Quick Setup Guide

INTRODUCTION:
The Wireless Color Weather Station features radio-controlled time, weather forecast, indoor and outdoor temperature/humidity as well as heat index and dew point, on a stylish, colorful, and easy to read display. Use the integrated USB charging port to charge your devices when the Weather Station is plugged into a power outlet.

WIRELESS COLOR WEATHER STATION:

SETUP INSTRUCTIONS STEP BY STEP:

STEP 1: (optional battery operation)
- Remove battery cover from the Weather Station: Slide tab to right and pull out to remove the cover.
- Insert 3 NEW AA batteries (not included) into the back of the Weather Station. Observe the correct polarity (see marking inside the battery compartment).Do NOT mix old and new batteries.
- The Weather Station will light up and show, indoor temperature, humidity and channel 1.



STEP 2:
- Insert the 5-volt a/c power adapter into the designated area on the back of the Weather Station.
- Plug the a/c power adapter into a wall outlet for continuous backlight (ON/OFF), and dimmer feature. (Backlight will illuminate for 8 seconds when using only battery power with a press/release of the SNOOZE/LIGHT button.)
- **IMPORTANT:** When operating on a/c power, to avoid interference, the **backlight** will turn off while the Weather Station searches for the WWVB signal. The backlight returns after a 2-10 minute search.

STEP 3:
- Ensure that the transmitter is within 10 feet of the Weather Station.
- Remove battery cover from transmitter: Slide the battery cover down and lift off the back.
- Insert 2 NEW AA batteries into the TX14TH-LCD-B transmitter. Observe the correct polarity.
- The temperature, humidity and channel will be displayed on the LCD of the transmitter.
- Press the °C/°F button on the transmitter to switch from Fahrenheit to Celsius.

- The CH switch is set to Channel 1 by default. Confirm channel 1 is selected.
- Within 3 minutes the Weather Station will beep and then show readings in the Outdoor temperature area on the LCD.

Note: Use Alkaline batteries (or Lithium for temperatures below - 20°F / -28.8°C).

TROUBLESHOOTING:
- If the Weather Station does not show the outdoor temperature after 3 minutes, remove the a/c power adapter and all batteries from both units and start the setup process again.
- If the outdoor temperature does not show up after a second attempt, please slide open the battery cover of the outdoor transmitter to reveal the TX button (which is under the °C/°F button, push down on the TX button for 3 seconds to send a wireless signal to the Weather Station.
- On the Weather Station, hold the CH button for 3-5 seconds to search for the transmitter.
- For optimal 433 MHz signal reception, the outdoor transmitter should be placed within 200 feet (60 meters) from the indoor Weather Station.

POSITIONING THE WIRELESS OUTDOOR TEMP/HUMIDITY TRANSMITTER
Once the Weather Station shows the outdoor temperature, place it and the transmitter in the desired locations and wait approximately 1-hour before permanently mounting the transmitter to ensure that there is proper reception. The transmitter should be mounted vertically, in a shaded, protected area, at least 6 feet from the ground to avoid damage and ensure accurate readings. The transmitter is water resistant, not waterproof and should not be placed anywhere it will become submerged in water or subject to standing water or snow.

WALL MOUNT

- Choose a shaded location (under an overhang) for the transmitter that is within the confirmed wireless reception range of the Weather Station for accuracy.
- Install one mounting screw (not included) into a wall leaving approximately ½ of an inch (12.7mm) extended.
- Place the hanging hole (on the back of the transmitter) onto the mounting screw and gently slide the transmitter down to secure it.

IMPORTANT: For true temperature and humidity readings, mount the transmitter out of direct sunlight on a North-facing wall or in any other well shaded area like under an eave or deck rail. The maximum transmitting range in open air is over 200-feet (60 meters). Obstacles such as walls, windows, stucco, concrete, and large metal objects can reduce the range. Place the transmitter at least 6 feet in the air to improve signal transmission.

BUTTON FUNCTIONS:

Button	Press and Release Functions	Hold 3-5 seconds
SET	Move through program menu Confirm setting.	Enter program menu, set time, date, etc.
ALARM	View Alarm Activate/Deactivate Alarm	Alarm set
+/RCC	1 step forward (setup)	Search for WWVB signal Fast advance (setup)
-/°C/°F	Select temperature in °C/°F 1 step backward (setup)	Fast backward (setup)
MIN/MAX	1-time MAX values 2-times MIN values	Resets all MIN / MAX values
HEAT/DEW	1-time Heat Index 2-times Dew Point	
CH	Switch channels outdoor (multiple transmitters)	Search for remote transmitter
LIGHT HI/LO HOLD ON/OFF	Dim backlight for night time	Turn continuous backlight ON or OFF (a/c adapter)
LIGHT/SNOOZE (top)	Activates backlight when using only batteries Trigger snooze alarm	

PROGRAM MENU:
The SET button will move through the program menu.
The +/RCC or -/°C/°F button will change the value.
- **WWVB ON / OFF:** Hold the SET button 5 seconds and WWVB and the word ON will flash. Press and release the +/RCC or -/°C/°F button to turn WWVB to OFF if you do NOT wish to use WWVB reception (manual set time/date). Press the SET button to confirm and move to the next item.
- **TIME ZONE:** EST will flash. Press and release the +/RCC or -/°C/°F button to select a different Time Zone: AST=Atlantic, EST= Eastern, CST= Central, MST= Mountain, PST= Pacific, AKT= Alaska, HAT=Hawaiian time zone. Press the SET button to confirm and move to the next item.
- **DAYLIGHT SAVING TIME**: DST will flash and the word ON. Press and release the +/RCC or -/°C/°F button to turn this to OFF if you do not observe DST. Press the SET button to confirm and move to the next item.
- **12/24 HOUR TIME**: 12H will flash. Press and release the +/RCC or -/°C/°F button to select 24H. Press the SET button to confirm and move to the next item.
- **HOUR**: The hour will flash. Press and release the +/RCC or -/°C/°F button to select the correct hour. Press the SET button to confirm and move to the next item.
- **MINUTES**: The minutes will flash. Press and release the +/RCC or -/°C/°F button to select the correct minutes. Press the SET button to confirm and move to the next item.
- **YEAR**: The year will flash. Press and release the +/RCC or -/°C/°F button to select the correct year. Press the SET button to confirm and move to the next item.
- **MONTH**: The month will flash. Press and release the +/RCC or -/°C/°F button to select the correct month. Press the SET button to confirm and move to the next item.
- **DATE**: The date will flash. Press and release the +/RCC or -/°C/°F button to select the correct date. Press the SET button to confirm and exit the program menu

Note: The Day of the Week will set automatically when the year, month and date are set.

FAHRENHEIT/CELSIUS: Press and release the -/°C/°F button once on the Weather Station, to switch from Fahrenheit to Celsius.

AUTO (channel scroll) - AUTO will appear in the outdoor temperature/humidity area when multiple transmitters are received and the Weather Station is set to scroll through the channels automatically.
- Press and release the CH button repeatedly until the word AUTO shows. The Weather Station will rotate through all available channels.
- Press and release the CH button once to show only one channel continually.

The Weather Station can receive up to 3 outdoor transmitters.
Extra TX14TH-LCD-B transmitters may be found online or at your retailer to monitor remote temperature and humidity of up to 3 locations within a 200 Ft wireless range of the Weather Station.
Note: When only one transmitter is connected, you cannot see other channels.

WWVB RADIO CONTROLLED TIME
The National Institute of Standards and Technology (NIST) WWVB radio station is located in Ft. Collins, Colorado. It transmits the exact WWVB time signal continuously throughout the United States at 60 kHz. The signal can be received up to 2,000 miles away through the internal antenna in the Weather Station. However, due to the nature of the Earth's Ionosphere, reception is very limited during daylight hours. The Weather Station will search for a signal every night when reception is best. The WWVB radio station derives its signal from the NIST Atomic Clock in Boulder, Colorado.

THE WWVB RECEPTION ICON with full signal strength will appear on screen if the reception of the WWVB atomic time is successful.
- The tower icon is solid: The Weather Station has received the WWVB signal.
- No tower icon shows: The Weather Station was unable to receive a signal. Reposition the Weather Station for better signal reception or try again at bedtime.
- The Weather Station will start searching at UTC: 07:00. If there is no reception on the first attempt, it will try again at 08:00, 09:00, 10:00 and 11:00 for at least 2 to 10 min.
- If the WWVB signal is strong it may establish reception in ABOUT 2-3 minutes.
- If the signal is marginal it will try to obtain a signal for up to 10 minutes.
- **IMPORTANT:** When operating on a/c power, to avoid interference, the **backlight** will turn off while the Weather Station searches for the WWVB signal. The backlight will return after the 2-10 minute search which occurs during the late night or early morning hours.

Note: In case the Weather Station is not able to detect the WWVB-signal (disturbances, transmitting distance, etc.); the time may be manually set.

BACKLIGHT:
A/C adapter: The backlight is on continuously when operating the Weather Station with the 5-volt a/c adapter.
- **HIGH:** The backlight is defaulted to HI when the Adapter is in use.
- **LO:** Press and release the LIGHT HI/LO button to dim the backlight. Press and release again to return to full strength.
- **Note:** When the Adapter is NOT in use, the High/Lo light feature is not available.
- **OFF:** Hold the HOLD ON/OFF button for 5 seconds, until the station beeps, to turn the backlight off, to sleep.
- **ON:** Hold the HOLD ON/OFF button again until the station beeps, to turn the backlight on.
- **Note:** When the backlight is off, press any button to activate the backlight for 8 seconds.

Battery power: Press and release the SNOOZE/LIGHT button and the backlight will show for 8 seconds, when operating on batteries only.

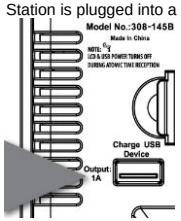
ALARM
When the alarm sounds, it continues for 2 minutes and then shuts off completely.

ALARM SET:
- **ALARM HOUR**: Press and hold ALARM button to enter alarm time setting mode. The Alarm Hour will flash. Use the +/RCC or -/°C/°F button to set the Hour. Press and release the ALARM button.
- **ALARM MINUTE**: The Alarm Minutes will flash. Use the +/RCC or -/°C/°F button to set the Minutes. Press and release the ALARM button to exit.

ALARM ACTIVATION:
- Press and release the ALARM button once to show Alarm Time.
- Press and release the ALARM button repeatedly to activate or deactivate the Alarm. The alarm icon appears when alarm is activated.

SNOOZE:
- When the alarm sounds, press the SNOOZE button to trigger snooze alarm for 10 minutes. The snooze icon **Zz** will flash when the snooze feature is active.
- To stop alarm for one day, press ALARM button, while in snooze mode. The alarm icon will remain solid.

USB CHARGE PORT:
The integrated USB charging port (on back) will charge devices when the Weather Station is plugged into a power outlet.



Note: This is a power output (charging) port only. This port will not supply power to the Weather Station.
- Connect your existing USB charging cord for your external device to the USB charging port on the back of the Weather Station to begin to charge. Charging times will vary. **Note: Check that your device will charge with the USB cord it came with.** *Many USB cords are for data transfer only, and cannot be used for charging.*
- **Output**: 1A maximum current USB.
- Do NOT overload USB port.

IMPORTANT: When operating on a/c power, to avoid interference, the backlight and **USB charging port** will turn off while the Weather Station searches for the WWVB signal. The backlight will return after the 2-10 minute search (which occurs during the late night or early morning hours). Then the USB charging port will resume working.

MIN/MAX TEMPERATURE/HUMIDITY DATA: The Weather Station shows daily minimum and maximum temperatures each day starting at midnight (12:00 AM). The station automatically resets the min/max temperatures at midnight (12:00 AM).

- **View MAX data:** Press and release the MIN/MAX button once to view maximum temperature and humidity values for indoor and outdoor data.
- **View MIN data:** Press and release the MIN/MAX button twice to view minimum temperature and humidity values for indoor or outdoor data.
- **Reset MIN/MAX data**: Hold the MIN/MAX button for 5 seconds to reset all min/max values.

HEAT INDEX: Heat Index combines the effects of heat (temperature) and humidity to determine how the how hot it feels to a human being.

Note: Heat index will be the same number as the temperature until the temperature is above 80 degrees °F (26.7° C).

View Heat Index: Press the HEAT/DEW button once and Heat Index will show instead of the ambient temperature.

DEW POINT: Dew point is the saturation point of the air, or the temperature to which the air has to be cooled in order to create condensation.

Note: Dew Point generally is lower than the temperature reading.

View Dew Point: Press the HEAT/DEW button twice and Dew Point will show instead of the ambient temperature.

LOW BATTERY:
- When this icon appears in the indoor (IN) reading section, replace the batteries in the Weather Station.
- When this icon appears in the outdoor (OUT) readings section, replace the batteries in the outdoor transmitter.

WEATHER FORECAST ICONS:
The Weather Station predicts weather condition of the next 12-hours based on the change of atmospheric pressure with 70-75% accuracy. Note: As weather conditions cannot be 100% correctly forecasted we are not responsible for any loss caused by an incorrect forecast.

The weather station samples the barometric pressure every twelve minutes. These samples are averaged hourly and daily then stored in nonvolatile memory.
The three hour pressure icon change is based off of the last four average hourly readings.

As the weather station builds memory, it will compare the current average pressure to the past forty day average pressure for increased accuracy. The longer the station operates in one location the more accurate the forecast icons will be.

CARE AND MAINTENANCE:
- **Do Not Mix Old and New Batteries**
- **Do Not Mix Alkaline, Standard, Lithium or Rechargeable Batteries**
- Do not expose the Weather Station to extreme temperatures, vibration or shock.
- Keep Weather Station dry.
- Clean Weather Station with a soft damp cloth. Do not use solvents or scouring agents.
- The Weather Station is not a toy. Keep it out of reach of children.
- The Weather Station is not to be used for medical purpose or for public information, but is determined for home use only.
- The specifications of this product may change without prior notice.
- Improper use or unauthorized opening of housing will void the warranty.
- If the unit does not work properly, change the batteries and/or check the a/c cord connection.

SPECIFICATIONS:
Indoor:

Temperature Range:	+32°F to +122°F (0°C to 50°C)
Humidity Range:	1%-99% (RH)
Interval:	About every 30 seconds

Outdoor:

Range:	Temperature, dew point, heat index -40°F to 140°F (-40°C to 60°C) Alkaline Batteries: -20°F to 140°F (-28.8°C to 60°C) Lithium Batteries: -40°F to 140°F (-40°C to 60°C) Temperatures below - 20°F (-28.8°C) require Lithium batteries in the outdoor transmitter
Humidity Range:	1%-99% (RH)
Distance:	Over 200 ft. (60 meters) RF 433MHz (open air)
Interval:	About every 50 seconds

Power:
Wireless Color Weather Station: 5-volt a/c power adapter (included)
Optional 3-AA, IEC, LR6 batteries (not included)
TX14TH-LCD-B Transmitter: 2-AA, IEC, LR6 batteries (not included)

Battery Life:
TX14TH-LCD-B Transmitter:
Battery Life: Battery life is over 24 months when using reputable battery brands for both Alkaline and Lithium batteries

Wireless Color Weather Station:
Battery Backup: Battery life is over 24 months when using the AC adapter for primary power

USB:
Output: 1 Amp maximum current

Dimensions:
Receiver: 6.3" L x 2.75" W x 4.25" H (160 x 70 x 108 mm)
TX14TH-LCD-B Transmitter: 2.5" L x 1.42" W x 3.98" H (64 x 36 x 101 mm)

WARRANTY INFORMATION
La Crosse Technology, Ltd provides a 1-year limited warranty on this product against manufacturing defects in materials and workmanship.

This limited warranty begins on the original date of purchase, is valid only on products purchased and used in North America and only to the original purchaser of this product. To receive warranty service, the purchaser must contact La Crosse Technology, Ltd for problem determination and service procedures. Warranty service can only be performed by a La Crosse Technology, Ltd authorized service center. The original dated bill of sale must be presented upon request as proof of purchase to La Crosse Technology, Ltd or La Crosse Technology, Ltd's authorized service center.

La Crosse Technology, Ltd will repair or replace this product, at our option and at no charge as stipulated herein, with new or reconditioned parts or products if found to be defective during the limited warranty period specified above. All replaced parts and products become the property of La Crosse Technology, Ltd and must be returned to La Crosse Technology, Ltd. Replacement parts and products assume the remaining original warranty, or ninety (90) days, whichever is longer. La Crosse Technology, Ltd will pay all expenses for labor and materials for all repairs covered by this warranty. If necessary repairs are not covered by this warranty, or if a product is examined which is not in need or repair, you will be charged for the repairs or examination. The owner must pay any shipping charges incurred in getting the La Crosse Technology, Ltd product to a La Crosse Technology, Ltd authorized service center. La Crosse Technology, Ltd will pay ground return shipping charges to the owner of the product to a USA address only.

The La Crosse Technology, Ltd warranty covers all defects in material and workmanship with the following specified exceptions: (1) damage caused by accident, unreasonable use or neglect (including the lack of reasonable and necessary maintenance); (2) damage occurring during shipment (claims must be presented to the carrier); (3) damage to, or deterioration of, any accessory or decorative surface; (4) damage resulting from failure to follow instructions contained in the owner's manual; (5) damage resulting from the performance of repairs or alterations by someone other than an authorized La Crosse Technology, Ltd authorized service center; (6) units used for other than home use (7) applications and uses that this product was not intended or (8) the products inability to receive a signal due to any source of interference.. This warranty covers only actual defects within the product itself, and does not cover the cost of installation or removal from a fixed installation, normal set-up or adjustments, claims based on misrepresentation by the seller or performance variations resulting from installation-related circumstances.

LA CROSSE TECHNOLOGY, LTD WILL NOT ASSUME LIABILITY FOR INCIDENTAL, CONSEQUENTIAL, PUNITIVE, OR OTHER SIMILAR DAMAGES ASSOCIATED WITH THE OPERATION OR MALFUNCTION OF THIS PRODUCT. THIS PRODUCT IS NOT TO BE USED FOR MEDICAL PURPOSES OR FOR PUBLIC INFORMATION. THIS PRODUCT IS NOT A TOY. KEEP OUT OF CHILDREN'S REACH.

This warranty gives you specific legal rights. You may also have other rights specific to the State. Some States do not allow the exclusion of consequential or incidental damages therefore the above exclusion of limitation may not apply to you.

For warranty work, technical support, or information contact:

La Crosse Technology, Ltd
2817 Losey Blvd. S.
La Crosse, WI 54601

The complete instruction manual is available at:
www.lacrossetechnology.com/308-145b

Protected under U.S. Patents:
5,978,738
6,076,044
6,597,990

Contact Support: 1-608-782-1610
Product Registration:
www.lacrossetechnology.com/support/register

FCC Disclaimer:
This Device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) the device must accept any interference received, including interference that may cause undesired operation.

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER AUTHORITY TO OPERATE THE EQUIPMENT

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